



N-{2-[1-(4-phenylbutyl)piperidin-4-vl]ethyl}-3-(pyridin-3-yl)-propionamide;

N-{2-[1-(4-hydroxy-4-phenylbutyl)piperidin-4-yl]ethy1}-3-(pykidin-3-yl)propionamide;

N-[2-(1-diphenylmethylpiperidin-4-1] ethyl]-3-(pyridin-3-yl)/propionamide,

N-[3-(1-diphenylmethylpiperidin-4-1)propyl]-3-(pyridin-3/yl)propionamide;

N-[4-(1-diphenylmethylpipcridin-4-1)butyl]-3-(pyridin-3/yl)propionamide;

N-[4-(1-benzylpiperidin-4-yl)butyl]- i-(pyridin-3-yl)acrylamide;

N-{4-[1-(2-phenylethyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-acrylamide;

N-{4-[1-(4-biphenylylmethyl)pipericlin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(1-naphthylmethyl)piperidin-4-yl]buryl}-\$-(pyridin-3-yl)acrylamide;

N-{4-[1-(9-anthrylmethyl)pipcridin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(cyclohexylphenylmethyl)pipcridin-4-/yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(10,11-dihydro-5H-dibenzo[a,d]cycl/hepten-5-yl)piperidin-4-yl]butyl}-3-(pytidin-3-yl)acrylamide;

N-[2-(1-diphenylmethylpiperidin-4-vl)ethyl]-3-(pytidin-3-yl)acrylamide;

N-[3-(1-diphenylmethylpiperidin-4-vl)p/opyl]-3-(pyridin-3-yl)acrylamide;

N-[5-(1-diphenylmethylpiperidin-4-vl)pentyl]-3-(pyridin-3-yl)acrylamide;

N-[6-(1-diphenylmethylpiperidin-4-v/)hexyl]-3-(pyridin-3-yl)acrylamide,

N-[4-(1-diphenylmethylpiperidin-4-/vl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-(4-{1-[bis(4-fluorophenyl)meth/plpiperidin-4-yl}butyl}-3-(pyridin-3-yl)acrylamide;

N-(4-{1-[bis(2-chlorophenyl)methyl]piperidin-4-yl}butyl)-3-(pyridin-3-yl)acrylamide;

N-[4-(1-diphenylmethylpiperidin-4-vl)butyl]-3-(2-fluoro-pyridin-3-yl)acrylamide;

N-[4-(1-diphenylmethylpiperidin-4-vl)butyl]-3-(6-fluoro-pyridin-3-yl)acrylamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1-diphenylmethylpipe/idin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide dihydrochloride;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide methanesulfonate;

N-[4-(1-acetylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;

N-[4-(1-benzoylpiperidin/4-yl)buty!|-3-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylacetylpi/peridin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;

 $N-\{4-[1-(9-0x0-9H-flu\phiren-4-carbenyl)piperidin-4-yl] butyl\}-3-(pyridin-3-yl)propionamide;$

N-[4-(1-methylsulfony/piperidin-4.) l)butyl]-3-(pyridin-3-yl)propionamide;

N-{4-[1-(2-naphthyls/dlfonyl)piperitlin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;

N-[4-(1-benzylpiperidin-4-yl)butyl]. 3-(pyridin-3-yl)propionamide;

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N-(4-{1-[bis(2-chlorophenyl)methyl]pipendin-4-yl}butyl)-3-(pyridin-3-yl)propionamide;

N-{4-[1-(phenylpyridin-3-ylmethyl)pij eridin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;

N-{4-[1-(9H-fluoren-9-yl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;

N-{4-[1-(6,11-dihydrodibenzo[b,e]ox pin-11-yl)piperidin-4-yl]-butyl}-3-(pyridin-3-yl)propionamide;

N-{4-[1-(1-naphthylaminocarbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylaminocarbonylpiperidin-4-yl)butyl]-3/(pyridin-3-yl)propionamide;

N-{4-[1-(10,11-dihydrodibenzo[b,f]a/epin-5-yl-carbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-

propionamide;

N-[4-(1-diphenylphosphinoylpiperidin-4-yl)butyl -3-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3/(2-fluoropyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]/3-(5-fluoropyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-y])butyl]-2-fluoro-3-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-y])butyl]-2,2-difluoro-3-(pyridin-3-yl)propionamide;

N-[5-(1-diphenylmethylpiperidin-4-y])/pentyl]-3-(pyridin-3-yl)propionamide;

N-[6-(1-diphenylmethylpiperidin-4-y/)hexyl]-3-(pyridin-3-yl)propionamide;

N-[2-(1-diphenylmethylpiperidin-4/yl)ethyl]-5-(pyridin-3-yl)pentanoic acid amide;

N-[4-(1-diphenylmethylpiperidin/4-yl)butyl]-5-(pyridin-3-yl)pentanoic acid amide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-N-hydroxy-3-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-2-hydroxy-3-(pyridin-3-yl)propionamide;

N-{4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-hydroxy-3-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;

N-[4-(1-methylsulfonylpipendin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(2-naphthylsulfonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(2-naphthylsu/fonyl)piperid:n-4-yl]butyl}-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-{4-[1-(1-naphthylaminocarbonyl)piperidin-4-yl]buty1}-3-(pyridin-3-yl)acrylamide;

N-[4-(1-diphenylaminocarbonylpipe adin-4-yl)buryl]-3-(pyndin-3-yl)acrylamide;

N-[4-(1-diphenylaminocarbonylpipe cidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-{4-[1-(10,11-dihydrodibenzo[b,f]:zepin-5-yl-carbonyl)piperidin-4-yl]-butyl}-3-(pyridin-3-yl)-

acrylamide;

N-[4-(1-diphenylphosphinoylpipen lin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1-acetylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1-diphenylacetylpiperidin-4-yi)-butyl]-3-(pyridin-3-yl)actylamide;

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N-{4-[1-(3,3-diphenylpropionyl)piperidin-4-yl]-butyl}-3-(pyridin-3-yl)acrylamide;

N-[4-(1-benzoylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1-benzoylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-{4-[1-(9-0x0-9H-fluoren-4-ylcarbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(phenylpyridin-3-ylmethyl)pijsetidin-4-yl]-butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(phenylpyridin-4-ylmethyl)piperidin-4-yl]-butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(6,11-dihydrodibenzo[b,e]oxcpin-11-yl)pipendin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(6,11-dihydrodibenzo[b,e]thicpin-11-yl)piperidin/4-yl]-buryl}-3-(pyridin-3-yl)acrylamide;

N-[7-(1-diphenylmethylpiperidin-4-yI)heptyl]-3-(pyridin-3-yl)acrylamide;

N-[8-(1-diphenylmethylpiperidin-4-yl,octyl]-3-(pyridin-3-yl)acrylamide;

N-[3-(1-diphenylmethylpiperidin-4-yloxy)propyl]-3-(pyridin-3-yl)acrylamide;

N-[3-(1-benzylpiperidin-4-yloxy)propyl]-3-(pyridin-3-yl)acrylamide;

N-[2-(1-diphenylmethylpiperidin-4-ylethyl]-5/(pyridin-3-yl)-2,4-pentadienic acid amide;

N-[4-(1-diphenylmethylpiperidin-4-y])buty]/5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-[5-(1-diphenylmethylpiperidin-4-ylpentyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-[6-(1-diphenylmethylpiperidin-4-yl) pexyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-[4-(4-diphenylmethylpiperazin-1-yl)-3-hydroxybutyl]-3-(pyridin-3-yl)acrylamide;

N-[3-(4-diphenylmethylpipcrazin-1/-yl)propoxy]-3-(pyridin-3-yl)acrylamide;

N-[4-(4-diphenylmethylpiperazin-1-yl)-4-oxobutyl]-3-(pyridin-3-yl)acrylamide;

N-[3-(4-diphenylmethylpiperazin-1-sulfonyl)propyl]-3-(pyridin-3-yl)acrylamide;

N-{2-[2-(4-diphenylmethylpiperazin-1-yl)ethoxy]ethyl}-3-(pyridin-3-yl)acrylamide;

N-(4-{4-[bis(4-fluorophenyl)methyl]| iperazin-1-yl} but-2-enyl)-3-(pyridin-3-yl)acrylamide;

N-(4-{4-[(4-carboxyphcnyl)phenylmethyl]pipcrazin-1-yl}butyl)-3-(pyridin-3-yl)acrylamide;

N-(4-{4-[(4-aminophenyl)phenylmenyl]piperazin-1-yl}butyl)-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(9H-fluoren-9-yl)piperazin-1-yl]butyl}-2-(pyridin-3-yloxy)aceramide;

N-{5-[4-(9H-fluoren-9-yl)pipcrazin-]-yl]pentyl}-3-(pyridin-3-yl)acrylamide;

N-{6-[4-(9H-flugren-9-yl)piperazin-1-yl]hexyl}-3-(pyridin-3-yl)acrylamide;

3-(pyridin-3-yl)/N-{4-[4-(1,2,3,4-tetr::hydronaphthalen-1-yl)piperazin-1-yl]butyl}acrylamide;

3-(pyridin-3-yl)-N-{4-[4-(5,6,7,8-tett:.hydronaphthalen-1-yl)piperazin-1-yl]butyl}acrylamide;

N-{4-[4-{naphthalen-1-yl)piperazin+1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-[4-(4-b/phenyl-2-ylpiperazin-1-yl)loutyl]-3-(pyridin-3-yl)propionamide;

N-[5-(4/biphenyl-2-ylpiperazin-1-yl)] rentyl]-3-(pyridin-3-yl)acrylamide;





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N-[6-(4-biphenyl-2-ylpiperazin-1-yl)bexyl]-3-(pyridin-3-yl)acrylamide,

N-[4-(4-biphenyl-2-ylpiperazin-1-yl)butyl]-2-(pyridin-3-yloxy)aceta/nide;

N-[4-(4-biphenyl-2-ylpiperazin-1-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-{4-[4-(10,11-dihydro-5H-dibenzo[1,d]cyclohepten-5-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)-propionamide;

N-{5-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]pcntyl}-3-(pyridin-3-yl)-acrylamide;

N-{6-[4-(10,11-dihydro-5H-dibenzo]a,d]cyclohepten-5-yl)piperazin-1-yl]hexyl}-3-(pyridin-3-yl)-acrylamide;

N-{4-[4-(10,11-dihydro-5H-dibenzo|a,d]cyclohepten-5-yl)piperazin-1-yl]butyl}-5-(pyridin-3-yl)-2,4-pentadienic amide;

N-{4-[4-(6,11-dihydrodibenzo[b,e]on epin-11-yl)piperazin-1-yl]butyl-3-(pyridin-3-yl)propionamide;

N-{2-[4-(6,11-dihydrodibenzo[b,e]thepin-1/1-yl)piperazin-1-yl]ethyl}-3-(pyridin-3-yl)acrylamide;

N-[4-(4-diphenylacetylpiperazin-1-yl)butylj-3-(pyridin-3-yl)acrylamide;

N-[4-(4-benzoylpiperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(2-aminobenzoyl)piperazin-/-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(4-carboxybenzoyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)actylamide;

N-{4-[4-(biphenyl-2-carbonyl)pipera.in-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(9-0x0-9H-fluoren-4-carbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(furan-2-carbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(naphthalen-1-ylaminocarbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)propionamide;

N-{4-[4-(diphenylaminocarbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(naphthalen-2/sulfonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-[4-(4-diphenylphosphinonylpipera zin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(4-biphenyl-2/ylpipcrazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(9H-flug/en-9-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(10,11/dihydro-5H-dibenzo|a,d]cyclohepten-5-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)-acrylamide;

N-[4-(4-ph/nylpiperidin-1-yl)-butyl]- \(-(pyridin-3-yl)acrylamide;

N-{4-[4-(1/H-indol-3-yl)piperidin-1-yl]butyl}-3-(pyridin-3-yl)actylamide;

N-{4-[4/(2-0x0-2,3-dihydrobenzimidazol-1-yl)piperidin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-[4-(-benzotriazol-1-ylpiperidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;



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N-{4-[4-(hydroxydiphenylmethyl)piperidin-1-yl]butyl}-2-(pyridin-3-yloxy)acetarnide;

N-[4-(4,4-diphenylpiperidin-1-yl)but, I]-3-(pytidin-3-yl)acrylamide;

N-{4-[4-(6,11-dihydrodibenzo[b,e]threpin-11-yliden)piperidin-1-yl]butyl}-3-(pyndin-3-yl)propionamide dihydrochloride semi-isopropanol;

N-{4-[4-(6,11-dihydrodibenzo[b,e]thepin-11-yliden)piperidin-1-yl]buryl}-5-(pyridin-3-yl)pentanamide;

N-{4-[4-(4,9-dihydrothieno[2,3-b]benzo[e]thiepin-4-yliden)piperidin-1-yl]buryl}-3-(pyridin-3-yl)-

propionamide;

N-{4-[4-(4,9-dihydrothicno[2,3-b]benzo[e]thiepin-4-yliden)piperidin-1-yl]butyl}-3-(pyridin-3-yl)-acrylamide;

N-[4-(4-diphenylphosphinoyloxypiperidin-1/yl)buryl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1,4-dioxa-8-azaspiro[4.5]dec-8-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(2,5-dioxo-3,4-diphenyl-2,5-dilydropyrrol-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(2,6-dioxo-4-phenylpiperidin-1.yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1,3-dioxo-4,5,6,7-tetraphenyl/1,3-dihydroisoindol-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(3-benzyl-2,4,5-trioxoimidazolidin-1-yl)butyl]-3-(pyridin-3-yl)acry1amide;

N-[4-(1,3,10-trioxo-l,4,5,6,10,l0a/hex:hydroaccnaphtho[1,8a-c]pyrrol-2-yl)butyl]-3-(pyridin-3-yl)-acrylamide;

N-[4-(2,5-dioxo-4,4-diphenylimidazolidin-1-y1)butyl-3-(pyridin-3-yl)acrylamide;

N-[4-(2,5-dioxo-3-pheny]/2,5-dihyd: opyrrol-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[3-(2,5-dioxo-3,4-diphenyl-2,5-dilydropyrtol-1-yl)propyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(3-pyridin-3-yla cryloylamino)butyl]-2,3:5,6-dibenzobicyclo[2.2.2]octan-7,8-dicarboximide;

N-[4-(5-benzyliden-2,4-dioxothiazolidin-3-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(4-benzyl-2,6-dioxopiperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[6-(2,5-dioxo/3,4-diphenyl-2,5-dilydropyrrol-1-yl)hexyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(2,5-dioxo-3,4-diphenyl-2,5-dilydropyrrol-1-yl)butyl]-3-(pyridin-3-yl)propionamide;

N-[4-(1,3-dioxo-1,3-dihydroisoindo|-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)butyI]-3-(1-oxopyridin-3-yl)acrylamide;

N-[6-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)hexyl]-3-(pyridin-3-yl)acrylamide;

N-[2-(1/,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)ethyl]-3-(pyridin-3-yl)acrylamide;

N-[4/(1,3-dioxo-1H,3H-benzo[de]is oquinolin-2-yl)buty1]-3-(pyridin-3-yl)acrylamide;

N-[8,8-bis(4-fluorophenyl)octyl]-3-(pyridin-3-yl)actylamide hydrochloride;

N-[6-(3,3-diphenylureido)hexyl]-3-(pyridin-3-yl)acrylamide;

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N-[4-(1-phenyl-1,2,4,5-tetrahydrobenzo[d]azepin-3-yl)bytyl]-3-(pyridin-3-yl)acrylamide;

N-(8,8-diphenyloctyl)-3-(pyridin-3-1) l)acrylamide;

N-(8-hydroxy-8,8-diphenyloctyl)-3-(pyridin-3-yl)actylamide;

N-[4-(3,3-diphenylureido)butyl]-3-(1)yridin-3-yl)agrylamide;

N-[4-(1H,3H-benzo[de]isoquinolin 2-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[6-(10,11-dihydrodibenzo[b,f]2zepin-5-ylcarbonylamino)hexyl]-3-(pyridin-3-yl)acrylamide;

3-(pyridin-3-yl)-N-[6-tosylaminohe: yl]acry/amide;

N-[4-(1,1-dioxo-1-thia-2-azaacenaplathylen-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-(6-hydroxy-6,6-diphenylhexyl)-3 (pyridin-3-yl)acrylamide;

N-(6,6-diphenylhex-5-enyl)-3-(pyritin-3-yl)acrylamide;

N-[4-(4,5-diphenylimidazol-1-yl)|/u/yl)-3-(pyridin-3-yl)acrylamide;

N-[4-(trans-2-phenylcyclopropylcarbonylamino)butyl]-3-(pyridin-3-yl)acrylamide;

N-(5-hydroxy-5,5-diphenylpentyl)-3-(pyridin-3-yl)acrylamide;

N-(7-phenylheptyl)-3-(pyrjdin-3-yl).icrylamide;

N-(4-diphenylacetylaminobutyl)-3-(pyridin-3-yl)acrylamide;

N-[4-(benzhydrylamino)butyl]-3-(p\ridin-3-yl)acrylamide; and

N-(4-{[2-(benzhydrylmethylamino)ethyl]methylamino}butyl)-3-(pyridin-3-yl)acrylamide.

40.(Amended) The method of claim 50 comprising the additional administration of a further cancerostatic or immunosuppressive agent that is not a compound of formula Ia.

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42.(Amended) The composition of claim 22 comprising a further cancerostatic or immunosuppressive agent that is not a compound of formula Ia.

43.(Amended) The composition of claim 52 where the compound(s) of formula la and the compound(s) of formula II - Vb/are contained separately within the composition.

44.(Amended) The composition of claim 52 where the compound(s) of formula Ia and the compound(s) of formula II - Vb are present in separate dosage forms, and the dosage forms are packaged together for co-administration.

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45.(Amended) The composition of claim 52 where:

R²¹ is selected from the group consisting of hydrogen, halogen, cyano, C₁₋₆ alkyl, trifluoromethyl, C₁₋₆ hydroxyalkyl, hydroxy, C₁₋₆ alkoxy, C₂₋₇ alkanoyloxy, C₁₋₆ alkylthio, C₁₋₆ aminoalkyl, amino, C₁₋₆ alkylamino, di(C₁₋₆ alkyl)amino, formyl, alkoxycarbonyl aminocarbonyl, (C₁₋₆ alkyl)aminocarbonyl, and carboxy;

R²² is selected from the group consisting of hydrogen, halogen, C₁₋₆ alkyl, trifluoromethyl, C₁₋₆ hydroxyalkyl, hydroxy, alkoxy, C₂₋₇: lkanoyloxy, C₁₋₆ aminoalkyl, amino, (C₁₋₆ alkoxy)carbonyl, aminocarbonyl, and carboxy;

R²³ is selected from the group consisting of hydrogen, C₁₋₆ alkyl, and C₁₋₆ hydroxyalkyl;

R²⁴ is selected from the group consisting of C₁₋₆ alkyl, C₃₋₆ alkenyl, C₂₋₆ hydroxyalkyl, C₂₋₆ alkoxyalkyl, and benzyl;

R²⁶ is selected from the group consisting of hydrogen, C₁₋₆ alkyl, C₁₋₆ hydroxyalkyl, C₃₋₆ alkoxyalkyl, C₁₋₆ aminoalkyl, C₄₋₁₂ dialkylaminoalkyl, and carboxymethyl;

when b is 1, R²⁷ is selected from the group consisting of hydrogen, C₁₋₆ alkyl, C₁₋₆ hydroxyalkyl, C₃₋₆ alkoxyalkyl, C₁₋₆ aminoalkyl, C₄ 12 dialkylaminoalkyl, and carboxymethyl;

when b is 2, R^{27} /is C_{2-10} alkylene in which a methylene group is optionally replaced by O, NH, or N-alkyl.

46. (Amended) The composition of claim 52 where the compound having vitamin PP activity or a prodrug thereof is selected from the group consisting of nicotinic acid, nicotinamide, and their pharmaceutically acceptable ester and amide derivatives, anionic, quaternary, and addition salts, N-oxides, and analogous thioxo derivatives, their isomers, and prodrugs thereof.

48.(Amended) The composition of claim 51 where the compound having vitamin PP activity or a produg thereof is tryptophan.

49.(Amended) The composition of claim 52 where the compound(s) of formula Ia are selected from the group consisting of

N-[2-(1-benzylpiperidin-4-yl)ethyl]-1-(pyridin-3-yl)propionamide;

N-{2-[1-(2-phenylethyl)piperidin-4-yl]ethyl}-3-(pyridin-3-yl)propionamide;

N-{2-[1-(4-phonylbutyl)piperidin-4-yl]ethyl}-3-(pyridin-3-yl)propionamide;

N-{2-[1-(4-hydroxy-4-phonylbutyl)| iperidin-4-yl]ethy1}-3-(pyridin-3-yl)propionamide;

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N-[2-(1-diphenylmethylpiperidin-4-yl)ethyl]-3-(pyridin-3-yl)propionamide,

N-[3-(1-diphenylmethylpiperidin-4-yl)propyl]-3-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;

N-[4-(1-benzylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(2-phenylethyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(4-biphcnylylmethyl)piperid:n-4-yl]buyyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(1-naphthylmethyl)piperidin 4-yl]butyl}-3-(pyridin-3-yl)-acrylamidc;

N-{4-[1-(9-anthrylmethyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(cyclohexylphenylmethyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(10,11-dihydro-5H-dibenzo[:1,d]/cyclohepten-5-yl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-acrylamide;

N-[2-(1-diphenylmethylpiperidin-4-y|)ethyl]-3-(pyridin-3-yl)acrylamide;

N-[3-(1-diphenylmethylpiperidin-4-yl)propyl]-3-(pyridin-3-yl)acrylamide;

N-[5-(1-diphenylmethylpiperidin-4-yl)pentyl]-3-(pyridin-3-yl)acrylamide;

N-[6-(1-diphenylmethylpiperidin-4-yl)hexyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-(4-{1-[bis(4-fluorophenyl)methyl]piperidin-4-yl}butyl}-3-(pyridin-3-yl)acrylamide;

N-(4-{1-[bis(2-chlorophenyl)methyl]jiperidin-4-yl}butyl)-3-(pyridin-3-yl)acrylamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(2-fluoro-pyridin-3-yl)acrylamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(6-fluoro-pyridin-3-yl)acrylamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide dihydrochloride;

N-[4-(1-diphenylmethylpiperidin-4-y)|butyl]-3-(pyridin-3-yl)acrylamide methanesulfonate;

N-[4-(1-acetylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;

N-[4-(1-benzoylpiperidin-4-yl)butyl]-:-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylacetylpiperidin-4-yl)lutyI]-3-(pyridin-3-yl)propionamide;

N-{4-[1-(9-0x0-9H-fluoren-4-carbonvl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;

N-[4-(1-methylsulfonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;

N-{4-[1-(2-naphthylsulfonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;

N-[4-(1-benzylpiperidin-4-yl)butyl]-3 (pyridin-3-yl)propionamide;

N-(4-{1-[bis/(2-chlorophenyl)methyl]piperidin-4-yl}butyl)-3-(pyridin-3-yl)propionamide;

N-{4-[1-(phenylpyridin-3-ylmethyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;





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N-{4-[1-(9H-fluoren-9-yl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-propionamide;

N-{4-[1-(6,11-dihydrodibenzo[b,e]ox(pin-11-yl)piperidin-4-yl]-butyl}-3/-(pyridin-3-yl)propionamide;

N-{4-[1-(1-naphthylaminocarbonyl)pipcridin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylaminocarbonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;

N-{4-[1-(10,11-dihydrodibenzo[b,f]azepin-5-yl-carbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-propionamide;

N-[4-(1-diphenylphosphinoylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(2-fluoropyndin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(5-fluoropyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-2-fluoro-3/(pyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-2,2-diflyoro-3-(pyridin-3-yl)propionamide;

N-[5-(1-diphenylmethylpiperidin-4-yl)pentyl]-3-(py/idin-3-yl)propionamide;

N-[6-(1-diphenylmethylpiperidin-4-yl)hexyl]-3-(p/ridin-3-yl)propionamide;

N-[2-(1-diphenylmethylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)pcntanoic acid amide;

N-[4-(1-diphenylmethylpipexidin-4-yl)butyl]-5-(pyridin-3-yl)pentanoic acid amide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]/N-hydroxy-3-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl]butyl]-2-hydroxy-3-(pyridin-3-yl)propionamide;

N-{4-(1-diphenylmethylpipczidin-4-yl)batyl]-3-hydroxy-3-(pyridin-3-yl)propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl) butyl]-3-(pyridin-3-yl)propionamide;

N-[4-(1-methylsulfonylpiperidin-4-yl/)suryl]-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(2-naphthylsulfonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(2-naphthylsulfonyl)pipe/idin-4-yl]butyl}-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-{4-[1-(1-naphthylaminocarbonyl)piperidin-4-yl]buty1}-3-(pyridin-3-yl)acrylamide;

N-[4-(1-diphenylaminocarbonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)actylamide;

N-[4-(1-diphenylaminocarbohylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-{4-[1-(10,11-dihydrodibenzo[b,f]2z epin-5-yl-carbonyl)piperidin-4-yl]-butyl}-3-(pyridin-3-yl)-acrylamide;

N-[4-(1-diphenylphosph/noylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1-acetylpiperidin/4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1-diphenylacety/piperidin-4-yl)-butyl]-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(3,3-dipherylpropionyl)piperidin-4-yl]-butyl}-3-(pyridin-3-yl)acrylamide;

N-[4-(1-benzoylpiperidin-4-yl)butyl]-i)-(pyridin-3-yl)acrylamide;

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N-[4-(1-benzoylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-{4-[1-(9-0x0-9H-fluoren-4-ylcarl onyl)piperidin-4-yl]butyl}-3-(py/fidin-3-yl)acrylamide;

N-{4-[1-(phenylpyridin-3-ylmethyl)] viperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(phenylpyridin-4-ylmethyl)])iperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(6,11-dihydrodibenzo[b,c]oxepin-11-yl)piperidin-4-yl}buryl}-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(6,11-dihydrodibenzo[b,e]thiepin-11-yl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-[7-(1-diphenylmethylpiperidin-4-vl)heptyl]-3-(pyridin-3/yl)actylamide;

N-[8-(1-diphenylmethylpiperidin-4-\(\dagger\))octyl]-3-(pyridin-3/-yl)acrylamide;

N-[3-(1-diphenylmethylpiperidin-4-vloxy)propyl]-3-(pyridin-3-yl)acrylamide;

N-[3-(1-bcnzylpiperidin-4-yloxy)propyl]-3-(pyridin-3-yl)acrylamide;

N-[2-(1-diphenylmethylpiperidin-4-)1)ethyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-[5-(1-diphenylmethylpiperidin-4-1]pentyl]-5-(pyridin-3-yl)-2,4-pentadienic acid atnide;

N-[6-(1-diphenylmethylpiperidin-4-1)hexyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;

N-[4-(4-diphenylmethylpiperazin-1-vl)-3-hydroxybutyl]-3-(pyridin-3-yl)acrylamide;

N-[3-(4-diphenylmethylpiperazin-1-vl)propoxy]-3-(pyridin-3-yl)acrylamide;

N-[4-(4-diphenylmethylpiperazin-1-vl)-4-oxobutyl]-3-(pyridin-3-yl)actylamide;

N-[3-(4-diphenylmethylpiperazin-1-:u/fonyl)propyl]-3-(pytidin-3-yl)acrylamide;

N-{2-[2-(4-diphenylmethylpiperazin /1-yl)cthoxy]ethyl}-3-(pyridin-3-yl)acrylamide;

N-(4-{4-|bis(4-fluorophenyl)methyl/piperazin-1-yl}but-2-enyl)-3-(pyridin-3-yl)acrylamide;

N-(4-{4-[(4-carboxyphenyl)phenylmethyl]piperazin-1-yl}butyl)-3-(pyridin-3-yl)acrylamide;

N-(4-{4-[(4-aminophenyl)phenylme|hyl]piperazin-1-yl}butyl)-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(9H-fluoren-9-yl)piperazin-l-yl]butyl}-2-(pyridin-3-yloxy)acetamide;

N-{5-[4-(9H-fluoren-9-yl)piperazin-1-yl]pentyl}-3-(pyridin-3-yl)actylamide;

N-{6-[4-(9H-fluoren-9-yl)piperazin-1-yl]hexyl}-3-(pyridin-3-yl)acrylatnide;

3-(pyridin-3-yl)-N-{4-[4-(1,2/3,4-tetr:thydronaphthalen-1-yl)piperazin-1-yl]butyl}acrylamide;

3-(pyridin-3-yl)-N-{4-[4-(5/6,7,8-tett..hydronaphthalen-1-yl)piperazin-1-yl]butyl}acrylamide;

N-{4-[4-{naphthalen-1-y|}piperazin-1-yl]butyl}-3-(pyridin-3-yl)actylamide;

N-[4-(4-biphenyl-2-ylpiperazin-1-yl)] utyl]-3-(pyridin-3-yl)propionamide;

N-[5-(4-biphenyl-2-ylp/perazin-1-yl)] entyl]-3-(pyridin-3-yl)acrylamide;

N-[6-(4-biphenyl-2-ylpiperazin-1-yl)l exyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(4-biphenyl-2-y/piperazin-1-yl)1 utyl]-2-(pyridin-3-yloxy)acetamide;



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N-[4-(4-biphenyl-2-ylpiperazin-1-yl)butyl]-5-(pyridin-3-yl)-2,4-pentaglienic acid amide;

N-{4-[4-(10,11-dihydro-5H-dibenze [a,d]cyclohepten-5-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)-propionamide;

N-{5-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]pentyl}-3-(pyridin-3-yl)-acrylamide;

N-{6-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]hexyl}-3-(pyridin-3-yl)-acrylamide;

N-{4-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohcpten-5-yl)piperazin-1-yl]butyl}-5-(pyridin-3-yl)-2,4-pentadienic amide;

N-{4-[4-(6,11-dihydrodibcnzo[b,e]c repin-11-yl)piperazin-1-yl]butyl-3-(pyridin-3-yl)propionamide;

N-{2-[4-(6,11-dihydrodibenzo[b,e]tluepin-11-yl)piperazin-1-yl]cthyl}-3-(pyridin-3-yl)acrylamide;

N-[4-(4-diphenylacetylpiperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(4-benzoylpiperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(2-aminobenzoyl)piperazin-1-yl]b/utyl}-3-(pytidin-3-yl)acrylatnide;

N-{4-[4-(4-carboxybenzoyl)piperazin-1-//]butyl}-3-(pytidin-3-yl)actylamide;

N-{4-[4-(biphenyl-2-carbonyl)piperaziń-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(9-0x0-9H-fluoren-4-carboy/yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)actylamide;

N-{4-[4-(furan-2-carbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(naphthalen-1-ylaminocarbonyl)piperazin-1-yl]buryl}-3-(pyridin-3-yl)propionamide;

N-{4-[4-(diphenylaminocarbonyl)piquerazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(naphthalen-2-sulfonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-[4-(4-diphenylphosphinonylpiperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(4-biphenyl-2-ylpiperazin-1-yl)l nutyl]-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(9H-fluoren-9/yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)-acrylamide;

N-[4-(4-phenylpiperidin-1-yl)-butyl]-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(1H-indol-3-yl)piperidin-1-3 []butyl}-3-(pyridin-3-yl)acrylamide;

N-{4-[4-(2-0x0-2,3-dihydrobenzimiclazol-1-yl)piperidin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;

N-[4-(4-berizotriazol-1-ylpiperidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-{4-[4-[hydroxydiphenylmethyl)piperidin-1-yl]butyl}-2-(pyridin-3-yloxy)acetamide;

N-[4-(4/4-diphenylpiperidin-1-yl)but/I]-3-(pyridin-3-yl)acrylamide;

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N-{4-[4-(6,11-dihydrodibenzo[b,e]thiepin-11-yliden)piperidin-1-yl]butyl}-3-(pyridin-3-yl)propionamide dihydrochloride semi-isopropanol;

N-{4-[4-(6,11-dihydrodibenzo[b,e]thiepin-11-yliden)piperidin-1-yl]buryl}-5-(pyridin-3-yl)pentanamide;

N-{4-[4-(4,9-dihydrothieno[2,3-b]benzo[e]thiepin-4-yliden)piperidin-1-yl]butyl}-3-(pyridin-3-yl)-propionamide;

N-{4-[4-(4,9-dihydrothieno[2,3-b]benzo[e]thicpin-4-yliden/piperidin-1-yl]butyl}-3-(pyridin-3-yl)-acrylamide;

N-[4-(4-diphenylphosphinoyloxypiq eridin-1-yl)butyl]-3/(pyridin-3-yl)acrylamide;

N-[4-(1,4-dioxa-8-azaspiro[4.5]dec-3-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(2,6-dioxo-4-phenylpiperidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1,3-dioxo-4,5,6,7-tetraphenyl 1,3-dihydrosoindol-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(3-benzyl-2,4,5-trioxoimidazolidin-1-yl) butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1,3,10-trioxo-1,4,5,6,10,10a-he: ahydroa/cenaphtho[1,8a-c]pyrrol-2-yl)butyl]-3-(pyridin-3-yl)-acrylamide;

N-[4-(2,5-dioxo-4,4-diphenylimidaz olidiy-1-y1)buryl-3-(pyridin-3-yl)acrylamide;

N-[4-(2,5-dioxo-3-phenyl-2,5-dihydrop/rrol-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[3-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)propyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(3-pyridin-3-ylacryloylamino)]/utyl]-2,3:5,6-dibenzobicyclo[2.2.2]octan-7,8-dicarboximide;

N-[4-(5-benzyliden-2,4-dioxothiazolidin-3-yl)buryl]-3-(pyridin-3-yl)acrylamide;

N-[4-(4-benzyl-2,6-dioxopiperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[6-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)hexyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)butyl]-3-(pyridin-3-yl)propionarnide;

N-[4-(1,3-dioxo-1,3-dihydroisoindol-2-yl)butyl]-3-(pyridin-3-yl)actylamide;

N-[4-(1,3-dioxo-1H,3H-benzo[de]i:oquinolin-2-yl)butyl]-3-(1-oxopyridin-3-yl)acrylamide;

N-[6-(1,3-dioxo-1H,3H-benzo[de]i.oquinolin-2-yl)hexyl]-3-(pyridin-3-yl)acrylamide;

N-[2-(1,3-dioxo-1H,3H/benzo[de]isoquinolin-2-yl)ethyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1,3-dioxo-1H,31/1-benzo[de]i:oquinolin-2-yl)bury1]-3-(pyridin-3-yl)acrylamide;

N-[8,8-bis(4-fluorophenyl)octyl]-3-(pyridin-3-yl)acrylamide hydrochloride;

N-[6-(3,3-diphenylyreido)hexyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1-phenyl-1,2/4,5-tetrahydrobenzo[d]azepin-3-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-(8,8-diphenyloctyl)-3-(pyridin-3+vl)acrylamide;

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N-(8-hydroxy-8,8-diphenyloctyl)-3-(pyridin-3-yl)acrylamide;

N-[4-(3,3-diphenylureido)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1H,3H-benzo[de]isoquinolin-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[6-(10,11-dihydrodibenzo[b,f/azepin-5-ylcarbonylamino)hexyl]-3-(pyridin-3-yl)acrylamide;

3-(pyridin-3-yl)-N-[6-tosylaminohexyl]acrylamide;

N-[4-(1,1-dioxo-1-thia-2-azaacenaphthylen-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-(6-hydroxy-6,6-dipheny/hexyl)-3-(pyridin-3-yl)acrylamide;

N-(6,6-diphenylhex-5-enyl)-3-(pyridin-3-yl)acrylamide;

N-[4-(4,5-diphenylimidazol-1-yl)butyl)-3-(pyridin-3-yl)acrylamide;

N-[4-(trans-2-phenyleyclopropylcarbonylamino)butyl]-3-(pyridin-3-yl)acrylamide;

N-(5-hydroxy-5,5-d/phenylpentyl)-3-(pyridin-3-yl)acrylamide;

N-(7-phenylhepty) -3-(pyridin-3-yl)acrylamide;

N-(4-diphenylacetylaminobutyl)-3-(pyridin-3-yl)acrylamide;

N-[4-(benzhydrylamino)butyl]-3-(pyridin-3-yl)acrylamide; and

N-(4-{[2-(ben/zhydrylmethylamino)ethyl]methylamino}butyl)-3-(pyridin-3-yl)acrylamide.

Add claims 50 - 52 to read as follows:

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50. The method of claim 38 where the cancerostatic or immunosuppressive agent is selected from the group consisting of compounds of formula Ia:

$$\begin{array}{c|c}
R^{2} & R^{3} & A & R^{4} \\
R^{1} & N & D & E \\
 & & O & (la)
\end{array}$$

where:

R¹ is selected from the group consisting of hydrogen, fluorine, methyl, trifluoromethyl, and hydroxy;

R² and R³ are each hydrogen;

R4 is hydrogen of hydroxy;

A is selected from the group consisting of ethylene, propylene, or butylene, each optionally substituted with hydroxy or one or trwo fluorine atoms, -OCH₂-, -SCH₂-, ethenylene, vinylene, and butadienylene;

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D is selected from the group consisting of C_2 - C_6 alkenylene, where the double bond may also join D and E;

E is selected from the group consisting of pyrrolidine, piperidine, hexahydroazepine, and morpholine; and

G is selected from the group consisting of benzyl, phenethyl, fluorenylmethyl, anthrylmethyl, diphenylmethyl, fluorenyl, dihydrodibenzocycloheptenyl, furylmethyl, thienylmethyl, thiazolylmethyl, pyridylmethyl, benzothienylmethyl, quinolylmethyl, phenylthienylmethyl, phenylpyridylmethyl, dihydrodibenzoxepinyl, dihydrodibenzothiepinyl, acetyl, pivaloyl, phenylacetyl, diphenylacetyl, diphenylacetyl, diphenylacetyl, diphenylpropionyl, naphthylacetyl, benzoyl, naphthoyl, anthrylcarbonyl, oxofluorenylcarbonyl, oxodihydroanthrylcarbonyl, dibenzylaminocarbonyl, furoyl, pyridylcarbonyl, chromonylcarbonyl, quinolylcarbonyl, naphthylaminocarbonyl, dibenzylaminocarbonyl, benzylphenylaminocarbonyl, diphenylaminocarbonyl, indolin-1-ylcarbonyl, dihydrodibenzazepinyl-N-carbonyl, tetrahdroquinolinyl-N-carbonyl, tetrahydrobenzazepinyl-N-carbonyl, methanesulfonyl, benzenesulfonyl, p-toluenesulfonyl, naphthalenesulfonyl, quinolinesulfonyl, and diphenylphosphinoyl, where the or each aromatic ring system may be independently substituted with one to three substituents selected independently from the group consisting of halogen, cyano, C₁ - C₆ alkyl, trifluoromethyl, C₃ - C₈ cycloalkyl, phenyl, benzyl, hydroxy, C₁ - C₆ alkoxy (optionally partially or completely fluorinated), benzyloxy, phenoxy, mercapto, C₁ - C₆ alkylthio, carboxy, C₁ - C₆ alkoxycarbonyl, benzyloxycarbonyl, nitro, amino, C₁ - C₆ alkylamino, and di(C₁ - C₆ alkyl)amino, or two adjacent substituents together form methylenedioxy.

- 51. A pharmaceutical composition comprising:
- (a) at least one compound selected from the group consisting of compounds of formula I:

$$\begin{array}{c|c}
 & R^{3(i)} & R^{4(i)} \\
 & R^{2(i)} & N & D^{(i)} & G \\
 & R^{1(i)} & N & O & G
\end{array}$$
(I)

where:

each of R¹⁽ⁱ⁾, R²⁽ⁱ⁾, R³⁽ⁱ⁾, and R⁴⁽ⁱ⁾ are independently selected from the group consisting of hydrogen, halogen, hydroxy, trifluoromethyl, cyano, aliphatic hydrocarbyl residue optionally substituted with one or more functional groups and optionally interrupted by one or more heteroatoms, and aromatic hydrocarbyl residue; or R¹⁽ⁱ⁾ and R²⁽ⁱ⁾ together form a bridge;

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k is 0 or 1;

A⁽ⁱ⁾ and D⁽ⁱ⁾ are independently a saturated or unsaturated optionally substituted aliphatic hydrocarbyl residue, optionally interrupted by a heteroatom or a functional group;

E is a bond or is a heterocyclic residue having one or two ring nitrogen atoms or one ring nitrogen atom and one ring oxygen atom, linked to D⁽ⁱ⁾ and G through a ring nitrogen atom and a ring carbon atom or through two ring nitrogen atoms, and

G is selected from the group consisting of hydrogen, an aliphatic or araliphatic residue, an unsaturated or aromatic monocyclic or polycyclic carbocyclic residue, a saturated, unsaturated, or aromatic monocyclic or polycyclic heterocyclic residue, bonded directly or through a functional group derived from a carbon, nitrogen, oxygen, sulfur, or phosphorus atom,

and the stereoisomers or racemic or non-racemic mixtures of stereoisomers thereof,

and the tautomers thereof when G is a heterocyclic aromatic ring or an aromatic ring substituted by a hydroxy, mercapto, or amino group,

and the pharmacologically acceptable acid addition salts thereof;

- (b) a compound having vitamin PP activity or a prodrug thereof; and
- (c) at least one physiologically acceptable carrier.
- 52. The composition of claim 41 where the compound(s) of formula I are selected from the group consisting of compounds of formula Ia:

where:

R¹ is selected from the group consisting of hydrogen, fluorine, methyl, trifluoromethyl, and hydroxy;

R² and R³ are each hydrogen;

R4 is hydrogen or hydroxy;

A is selected from the group consisting of ethylene, propylene, or butylene, each optionally substituted with hydroxy or one or trwo fluorine atoms, -OCH₂-, -SCH₂-, ethenylene, vinylene, and butadienylene;

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